Zener Diode

DZ2S033×0L

Panasonic

DZ2S033×0L

Silicon epitaxial planar type

For constant voltage / For surge absorption circuit DZ2J033 in SSMini2 type package

■ Features

- · Excellent rising characteristics of zener current Iz
- · Low zener operating resistance Rz
- Halogen-free / RoHS compliant (EU RoHS / UL-94 V-0 / MSL:Level 1 compliant)
- Marking Symbol: 5J or 5U

■ Packaging

Embossed type (Thermo-compression sealing): 3 000 pcs / reel (standard)

■ Absolute Maximum Ratings Ta = 25 °C

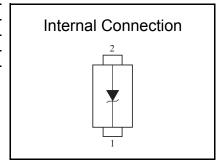
_	= / tooolate maximum ratings ra 20			
	Parameter	Symbol	Rating	Unit
	Repetitive peak forward current	IFRM	200	mA
	Total power dissipation *1	PT	150	mW
	Electrostatic discharge *2	ESD	±15	kV
	Junction temperature	Tj	150	°C
	Operating ambient temperature	Topr	-40 to +85	°C
	Storage temperature	Tstg	-55 to +150	°C

Note) *1 Mounted on glass epoxy print board ($45 \text{ mm} \times 45 \text{ mm} \times 1 \text{ mm}$) Solder in ($0.8 \text{ mm} \times 0.6 \text{ mm}$)

*2 Test method : IEC61000_4_2

(C = 150 pF, R = 330 $\Omega,$ Contact discharge : 10 times)

Unit: mm 0.8 0.13 2 0.6 1. Cathode 2. Anode Panasonic SSMini2-F5-B



SC-79

SOD-523

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JEITA

Code

■ Electrical Characteristics Ta = 25 °C ± 3 °C

Parameter	Symbol	Conditions	Min	Тур	Max	Unit
Forward voltage	VF	IF = 10 mA			1.0	V
Zener voltage *1, *2	VZ	IZ = 5 mA	3.14		3.47	V
Zener operating resistance	RZ	IZ = 5 mA			130	Ω
Reverse current	IR	VR = 1 V			20	μΑ
Temperature coefficient of zener voltage *3	SZ	IZ = 5 mA		-2.1		mV/°C

- Note) 1. Measuring methods are based on JAPANESE INDUSTRIAL STANDARD JIS C 7031 Measuring methods for Diodes.
 - 2. Absolute frequency of input and output is 5 MHz.
 - *1 The temperature must be controlled 25 °C for VZ mesurement.
 VZ value measured at other temperature must be adjusted to VZ (25 °C).
 - *2 VZ guaranted 20 ms after current flow
 - *3 Tj = 25 °C to 150 °C

Established: 2009-11-09

: 2013-07-16

Revised

Rank classification

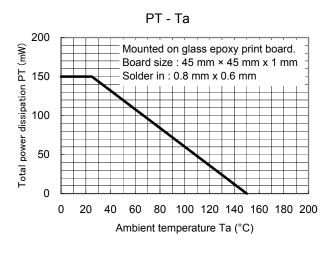
Code		М			0	
Rank	M			No-rank		
VZ	3.22	to	3.38	3.14	to	3.47
Marking symbol		5U			5J	

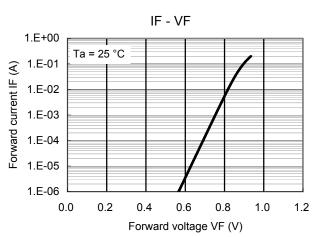
Panasonic

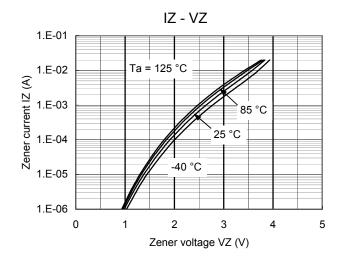
Zener Diode

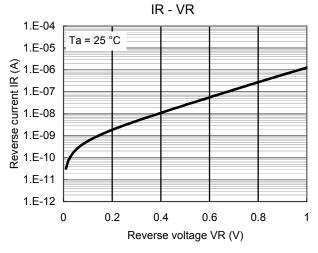
DZ2S033×0L

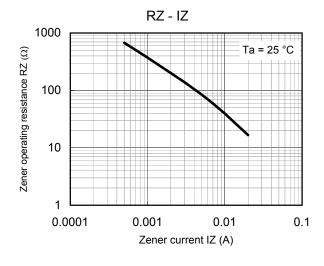
Technical Data (reference)

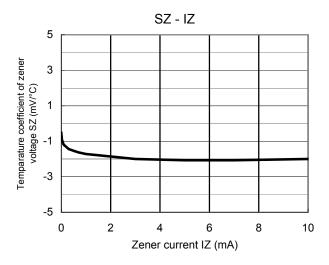












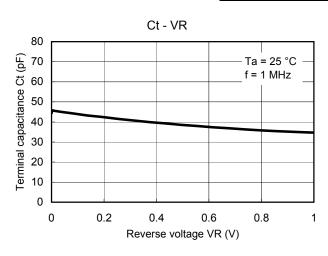
Established: 2009-11-09 Revised: 2013-07-16 Doc No. TT4-EA-11773 Revision. 3

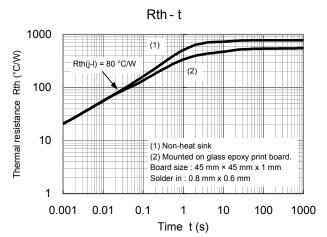
Panasonic

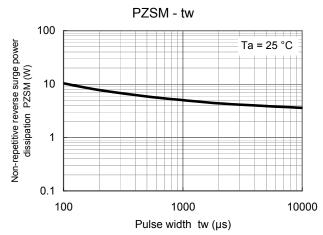
Zener Diode

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Technical Data (reference)







Established: 2009-11-09 Revised: 2013-07-16

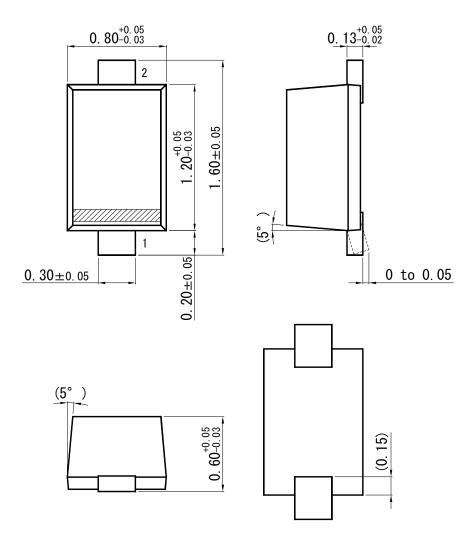
Zener Diode

DZ2S033×0L

Panasonic

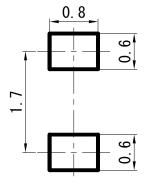
SSMini2-F5-B

Unit: mm



■ Land Pattern (Reference) (Unit: mm)

Established: 2009-11-09 Revised: 2013-07-16



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